

Access Card: iClass® Card

Contactless 13.56MHz Smart Card

(optional magnetic stripe)



HID's iCLASS® 13.56 MHz read/write contactless smart card technology can be used for diverse applications such as access control, biometrics, cashless vending, public transportation, airline ticketing and customer loyalty programs. Multiple, securely separated files enable numerous applications and support future growth.

The iCLASS Card offers iCLASS 13.56 MHz contactless read/write smart card technology along the ability to add a magnetic stripe, barcode, and anti-counterfeiting features including custom artwork or a photo identification directly on the credential. Your iCLASS Card can now be utilized for such diverse applications including access control, network log-on security, automotive vehicle identification, cashless vending, time and attendance, and biometric verification. Multiple securely separated files enable numerous applications and can support future capabilities. The iCLASS Card meets strict ISO thickness standards for use with direct image and thermal transfer printers.

iCLASS® was specifically designed to make access control more powerful, more versatile, and more secure. All radio frequency data transmission between the card and reader is encrypted using a secure algorithm. By using industry standard encryption techniques, iCLASS reduces the risk of compromised data or duplicated cards. For even higher security, the card data may also be protected with DES or triple DES encryption. Multiple securely separated application areas are each protected by 64-bit diversified read/write keys which allow complex applications and provide for future expansion.

Security mechanisms such as mutual authentication and encryption are efficiently combined with fast processing and data communication, resulting in transaction times of less than 100 milliseconds for a typical secure e-purse transaction.



Features

- 13.56 MHz read/write contactless smart card technology provides high-speed, reliable communications with high data integrity.
- iCLASS technology ensures high security with mutual authentication, encrypted data transfer, and 64-bit diversified keys for read/write capabilities.
- Any existing HID format can be factory or field programmed into the secure HID access control application area.
- Available in 2k bit (256 Byte), 16k bit (2K Byte) or 32k bit (4K Byte) configurations.
- Meets ISO standards for thickness for use with all direct image and thermal transfer printers
- Add a magnetic stripe, barcode, anti-counterfeiting, or photo ID.



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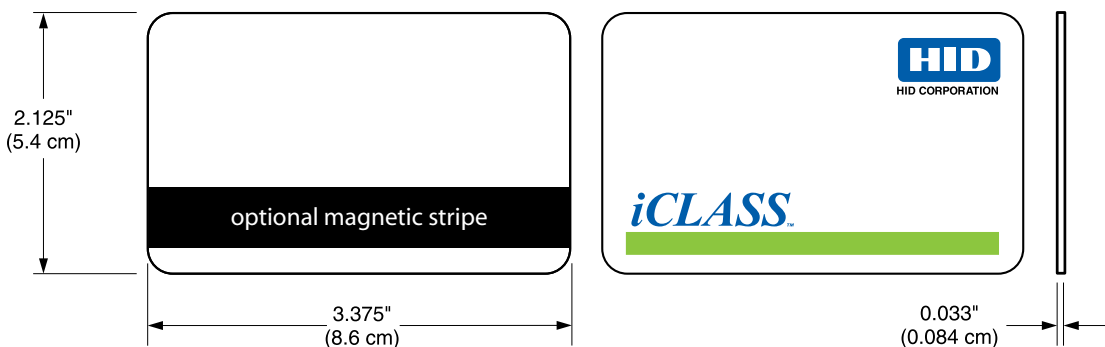
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Specifications

Typical Maximum* Read Range	R10 2.0-3.0" (5.0-7.6cm) R30/RW300 2.0-3.5" (5.0-8.9cm) R40/RW400 2.5-4.5" (6.3-11.4cm) RK40/RWK400 3.0-4.0" (7.6-10.1 cm) *Dependent upon installation conditions.
Dimensions (WxHxDcm)	5.40 x 8.57 x 0.084 cm (2.127" x 3.375" x 0.033")
Card Construction	Thin, flexible polyvinyl chloride (PVC) laminate
Operating Temperature	-40° to 70° C (-40° to 158° F)
Operating Humidity	5-95% non-condensing
Operating Frequency	13.56 MHz
RF Interface	As suggested by ISO/IEC: 15693 read/write 14443B mode - 106 kbps
Weight	5.7 grams (0.20oz)
Quick Description	13.56 MHz contactless smart card with antenna
Transaction Time	<100 ms typical
Baud Rate	14443 B2 mode - 212 kbps 15693 mode - 26 kbps
Memory Type	EEPROM, read/write
Multi-application Memory	2k bit (256 Byte) card – 2 application areas 16k bit (2k Byte) card – 2 or 16 application areas 32k bit (4k Byte) card – 16k bits in 2 or 16 application areas plus 16k bits user configurable.
Write Endurance	Min. 100,000 cycles
Data Retention	10 years
Options	<ul style="list-style-type: none"> • External card numbering (inkjet or laser engraving) • Vertical slot punch • Custom artwork (text or graphics) • Magnetic stripe



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